

Master of Science in Biomedical Sciences
Program code: 050010

INTRODUCTION

The Faculty of Medicine offers a part-time master program in **Biomedical Sciences**. The aim of this program is to provide top medical students with opportunity for advanced training and to gain research experience in basic medical sciences in parallel with their professional training in order to facilitate their development as physician-scientists. The program only offers thesis option as research requirement.

According to the University Council decision dated 4/2/2007, Thesis students admitted with effect from September 2007 are exempted from the comprehensive examination.

PROGRAM REQUIREMENTS

30 TOTAL COURSE CREDITS

11 COMPULSORY (Credits in parenthesis)

0510-502	Advanced Biostatistics	(1)
0530-535	Integrative Physiology	(2)
0540-501	Biochemistry of Cell Organelles	(2)
0540-521	Basic Molecular Biology	(1)
0540-563	Metabolic Homeostasis and Abnormalities	(3)
0550-505	Molecular Pharmacology	(2)

10 ELECTIVES (Credits in parenthesis)

0530-521	Experimental Physiology*	(1)
0530-532	Selected Topics in Cellular Physiology	(1)
0530-534	Selected Topics in Pathophysiology	(1)
0530-552	Fluids, Electrolytes and Acid Base Physiology	(3)
0530-571	Selected Topics in Physiology 1	(1)
0540-560	Biochemical Techniques I*	(3)
0540-561	Biochemical Techniques II*	(3)
0540-564	Biochemistry of Diseases	(3)
0540-565	Hormone Biochemistry	(2)
0540-567	Membrane Biochemistry and Biophysics	(2)
0550-504	Experimental Techniques in Pharmacology*	(3)
0550-519	Advanced Topics in Pharmacology 1	(3)
0560-506	Tissue and Organ Histology	(2)
0560-523	Seminars in Advanced Cell Biology	(1)
0570-502	Basic Laboratory Medicine*	(4)
0570-506	Immuno-Pathology	(2)

*At least one of the electives has to be completed (according to the student's research interest and area of research).

9 COMPULSORY COURSES

0545-597 Thesis (0)

0545-598 Thesis (0)

2000-599 Thesis (9)

COURSE DESCRIPTION

For more descriptions, please check Arabic Course Catalog.